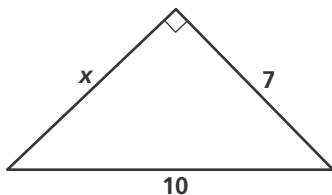


Practice 7-2

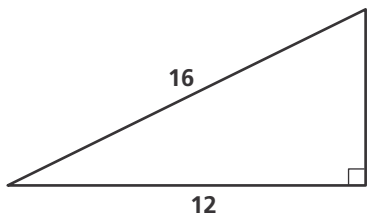
Pythagorean Theorem and Its Converse

Find the value of each variable. Leave your answers in simplest radical form.

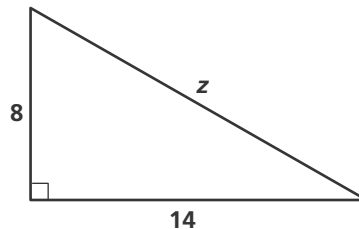
1.



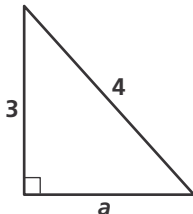
2.



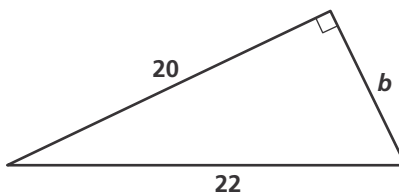
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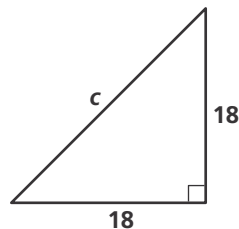
4.



5.

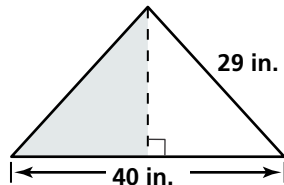


6.

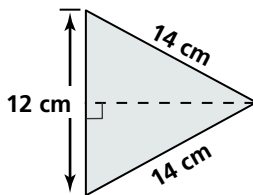


Find the area of each shaded region. Leave your answers in simplest radical form.

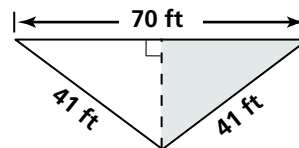
7.



8.

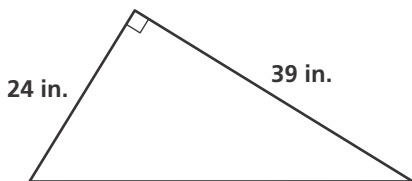


9.

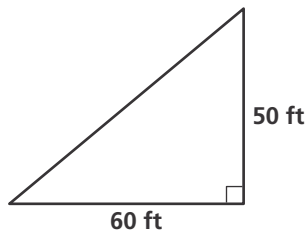


Find the length of each hypotenuse. Use your calculator, and round your answers to the nearest whole number.

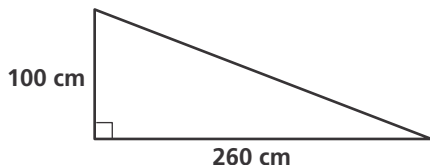
10.



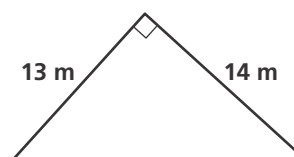
11.



12.



13.



The numbers represent the lengths of the sides of a triangle. Classify each triangle as *acute*, *obtuse*, or *right*.

14. 6, 9, 10

15. 18, 24, 30

16. 20, 100, 110

17. 7, 24, 25

18. 2, 5, 6

19. 13, 21, 24